ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1103257
Client:	AECOM Environment 2 Technology Park Drive Westford, MA 01886
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Project Name:	LINDE ACTON
Project Number:	Not Specified
Report Date:	03/21/11

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1103257-01	MW-7S	ACTON, MA	03/08/11 14:45
L1103257-02	MW-43D	ACTON, MA	03/08/11 15:50
L1103257-03	MW-45	ACTON, MA	03/09/11 16:00
L1103257-04	MW-43S	ACTON, MA	03/09/11 16:00
L1103257-05	MW-42	ACTON, MA	03/09/11 14:30
L1103257-06	MW-42 DUP	ACTON, MA	03/09/11 14:30
L1103257-07	B-34	ACTON, MA	03/09/11 14:05
L1103257-08	MW-46	ACTON, MA	03/09/11 12:55
L1103257-09	MW-15S	ACTON, MA	03/09/11 13:00
L1103257-10	MW-4D	ACTON, MA	03/09/11 10:50
L1103257-11	MW-3S	ACTON, MA	03/09/11 08:45
L1103257-12	MW-4S	ACTON, MA	03/09/11 10:45
L1103257-13	EQUIP. BLANK	ACTON, MA	03/09/11 14:45
L1103257-14	MW-6S	ACTON, MA	03/10/11 09:30
L1103257-15	MW-19S	ACTON, MA	03/10/11 11:00
L1103257-16	MW-17S	ACTON, MA	03/10/11 12:20
L1103257-17	MW-44	ACTON, MA	03/10/11 13:30
L1103257-18	TRIP BLANK	ACTON, MA	03/08/11 00:00

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

VPH

L1103257-04, -09 and -16 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1103257-04, -09 and -16: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG459179-2 LCSD recovery, associated with L1103257-14 through -18, were outside the acceptance criteria for n-Decane (68%); however, the target carbon ranges and analytes were within method criteria. The results of the original analysis are reported.

In addition, the associated WG459179-1/-2 LCS/LCSD RPD is above the acceptance criteria for n-Decane

Case Narrative (continued)

(26%).

EPH

L1103257-04, -16 and -17 have elevated detection limits for the individual target compounds only due to the dilutions required by the elevated concentrations of these compounds in the samples.

In reference to question G:

L1103257-04, -16 and -17: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG458925-2 LCS recovery, associated with L1103257-01 through -17, was above the acceptance criteria for Benzo(b)fluoranthene (148%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG458925-2/-3 LCS/LCSD RPDs, associated with L1103257-01 through -17, are above the acceptance criteria for C9-C18 Aliphatics (30%), C19-C36 Aliphatics (26%), Nonane (C9) (32%), Decane (C10) (30%), Dodecane (C12) (35%), Tetradecane (C14) (28%), Hexadecane (C16) (29%), Nonadecane (C19) (26%), Hexacosane (C26) (26%), Triacontane (C30) (26%) and Hexatriacontane (C36) (26%); however, the individual LCS/LCSD recoveries are within method limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons Elizabeth Simmons

Title: Technical Director/Representative Date: 03/21/11